

AMENDMENTS TO THE DRAWINGS

Attached hereto are twenty-two (22) sheets of corrected formal drawings that comply with the provisions of 37 C.F.R. § 1.84.

It is respectfully requested that the corrected formal drawings be approved and made a part of the record of the above-identified application.



REPLACEMENT SHEET

Def  
canceled  
3/16/04

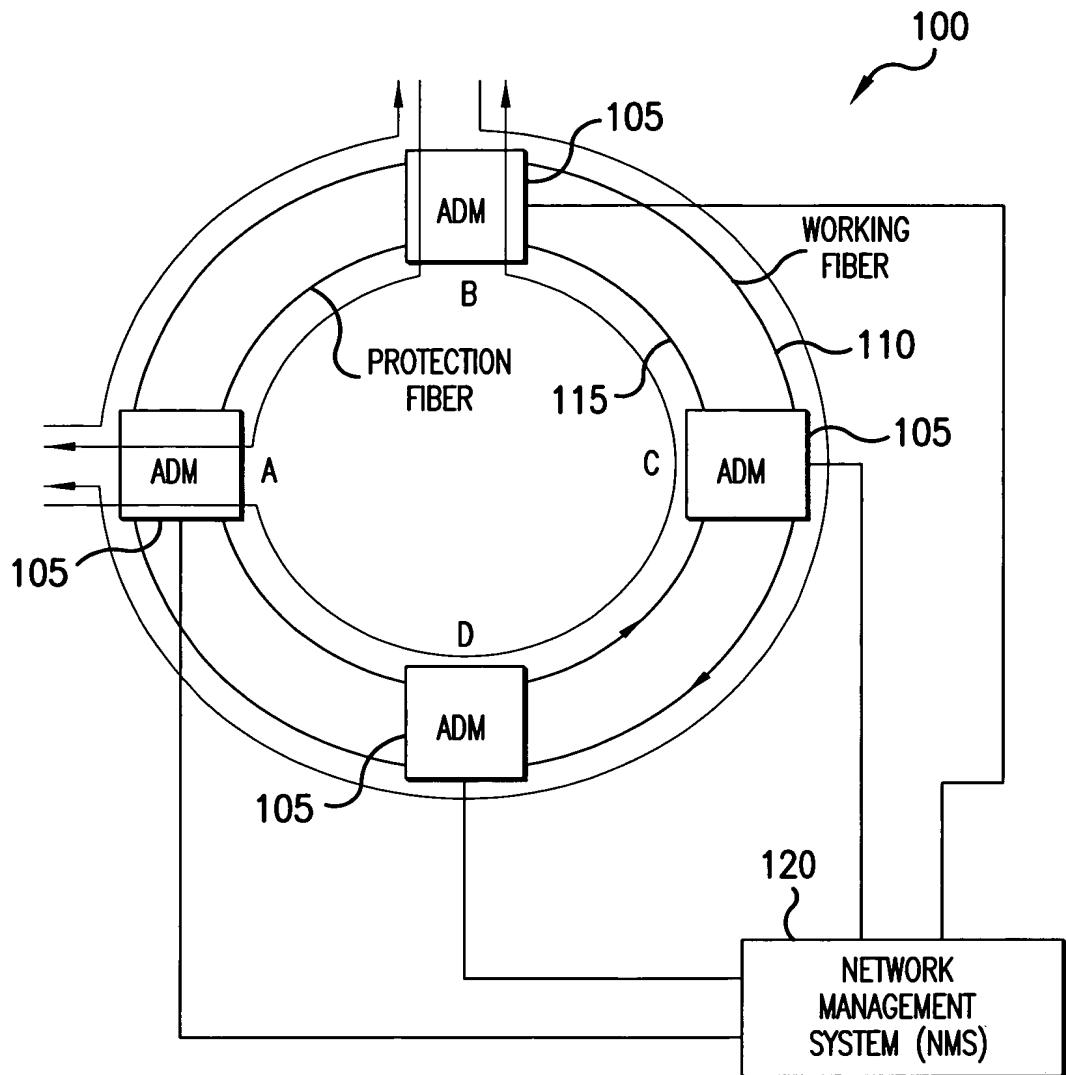
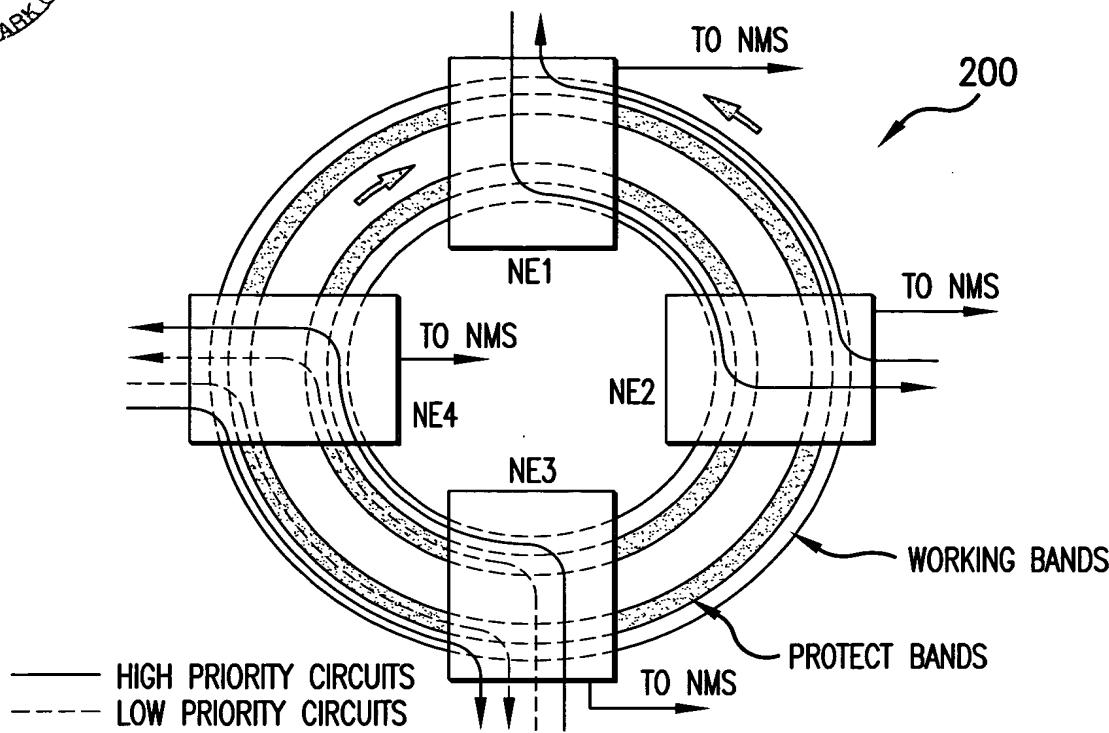


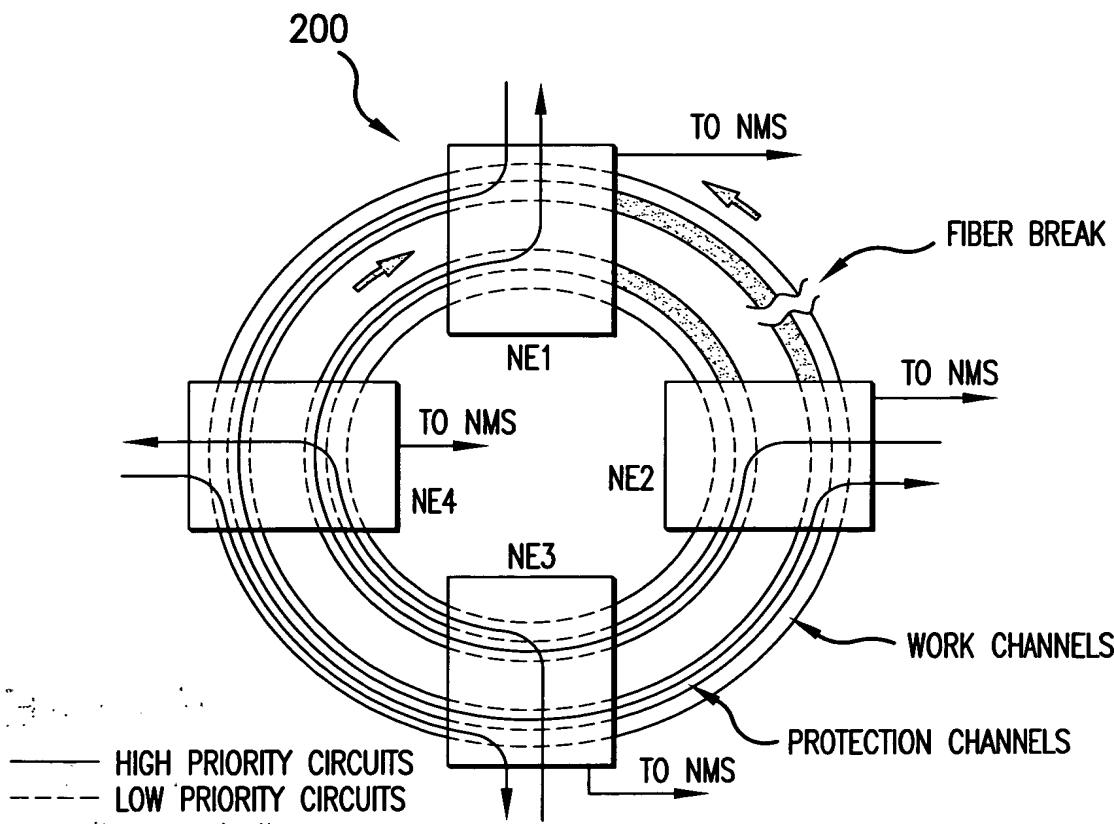
FIG.1  
PRIOR ART



## REPLACEMENT SHEET



**FIG.2**  
PRIOR ART



**FIG.3**  
PRIOR ART

REPLACEMENT SHEET

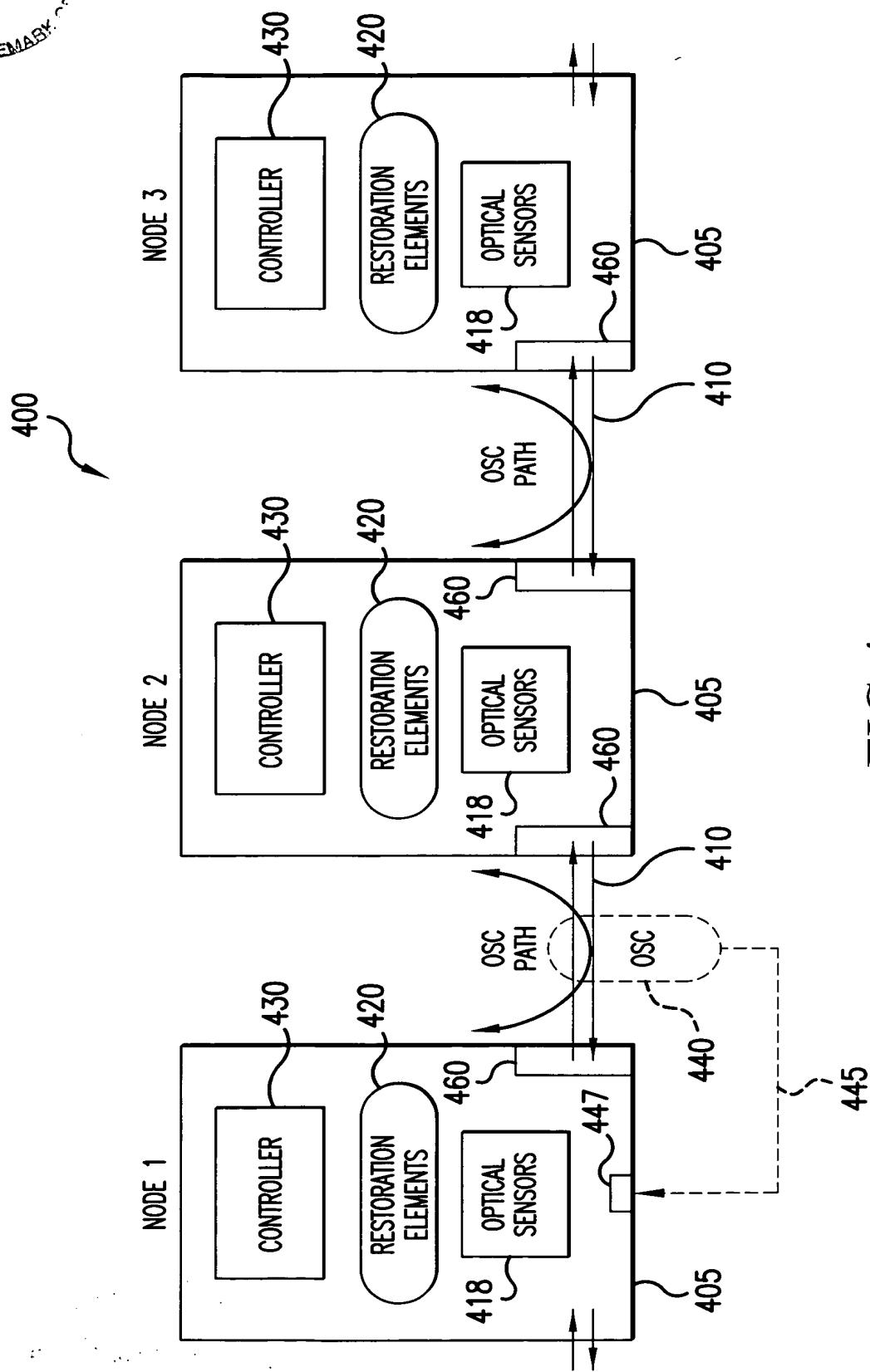
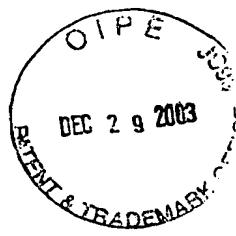


FIG.4



## REPLACEMENT SHEET

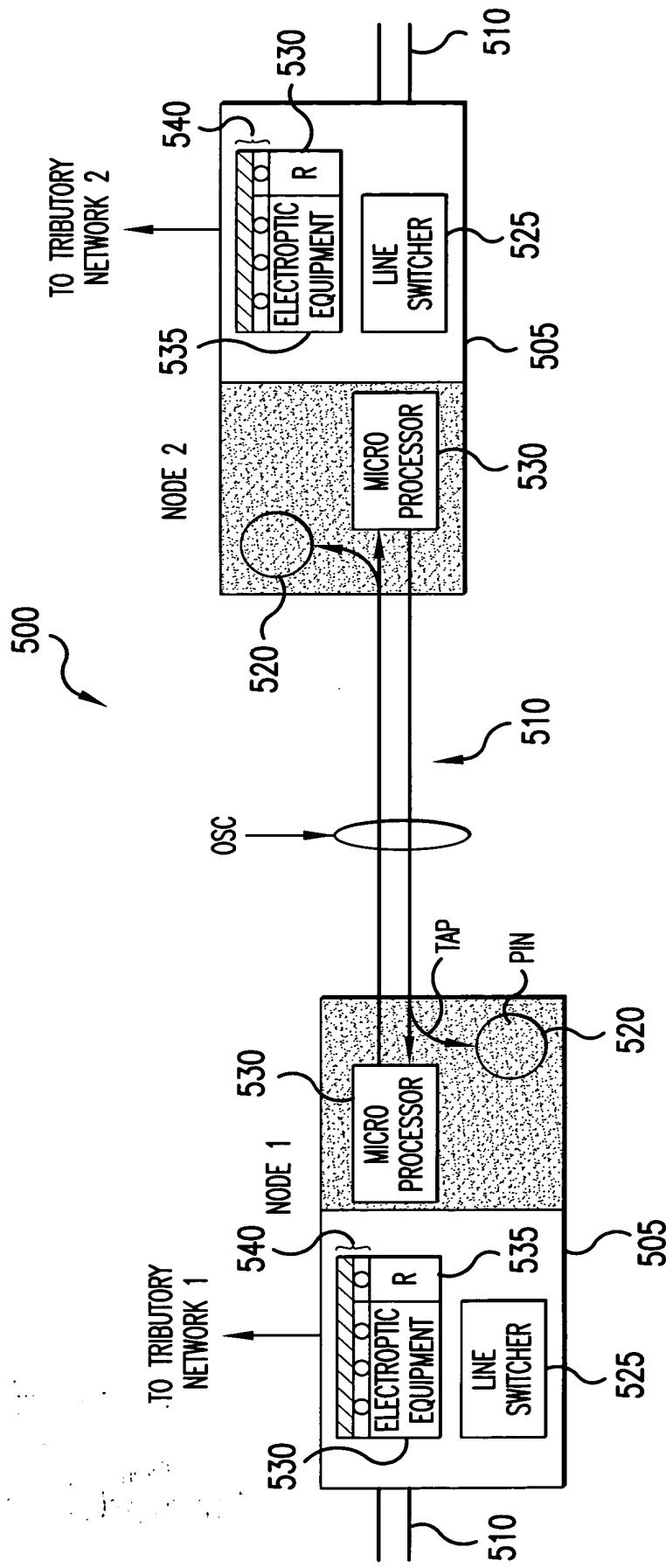


FIG. 5



## REPLACEMENT SHEET

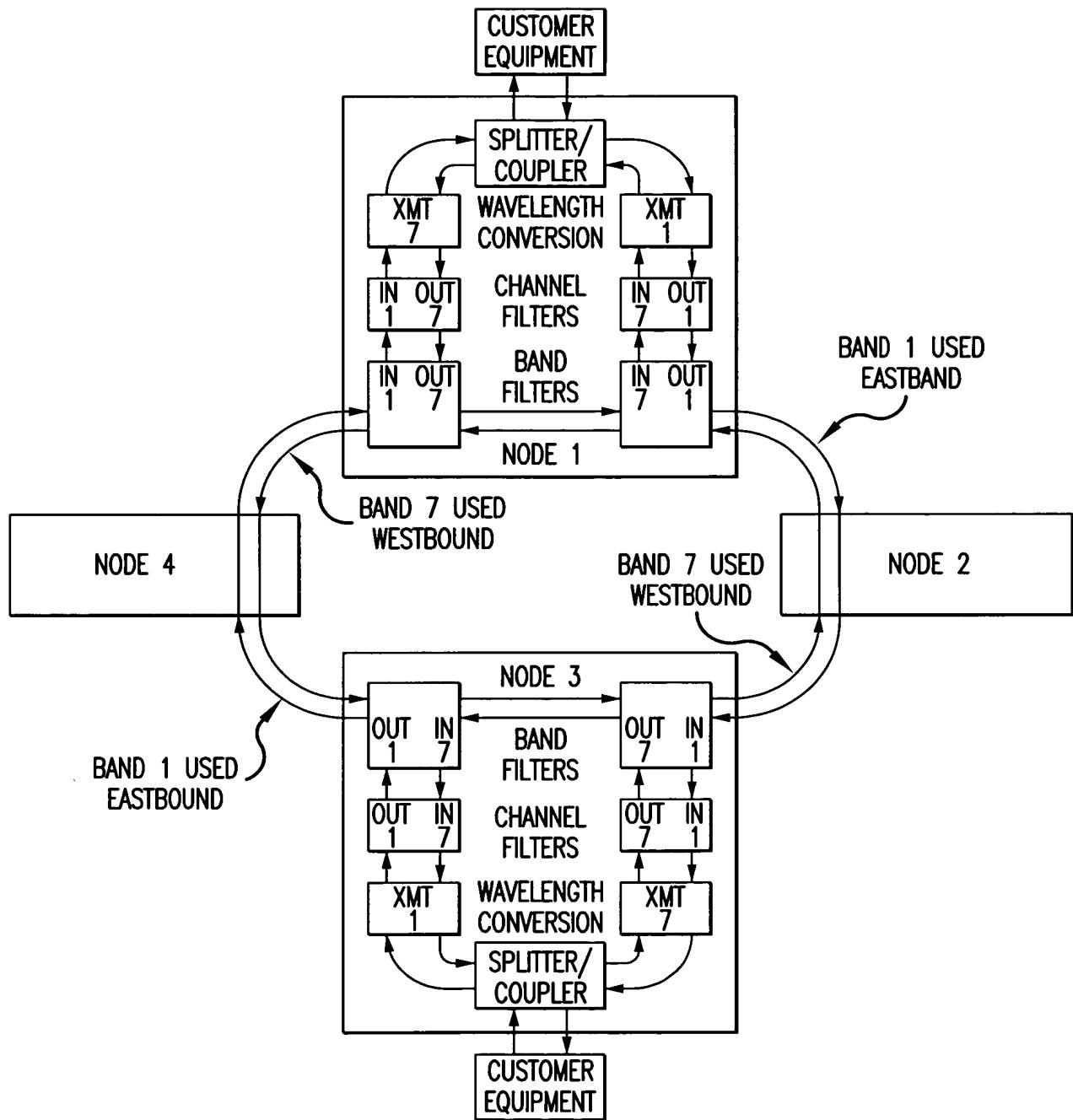


FIG.6



## REPLACEMENT SHEET

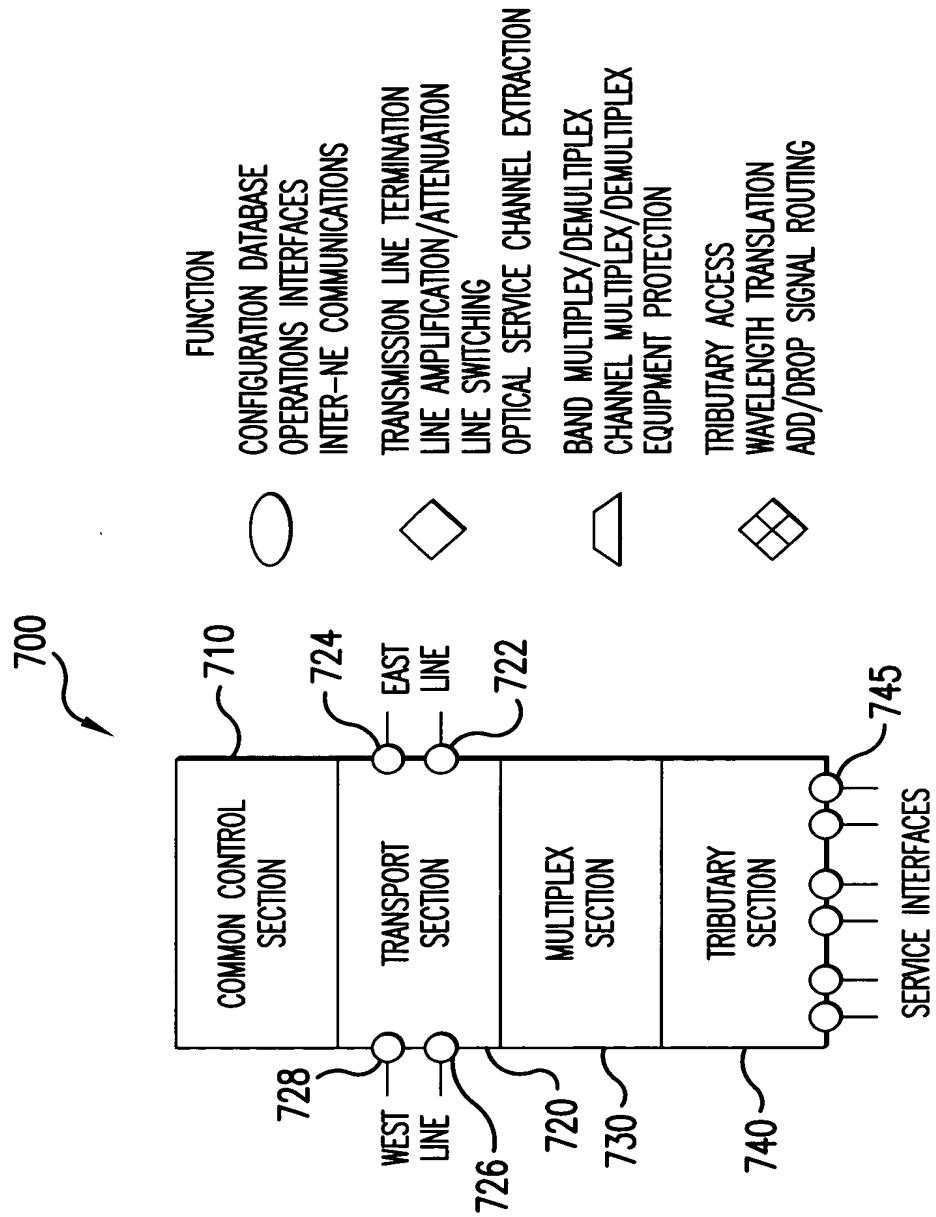
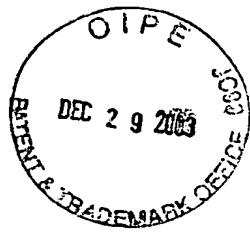


FIG. 7



## REPLACEMENT SHEET

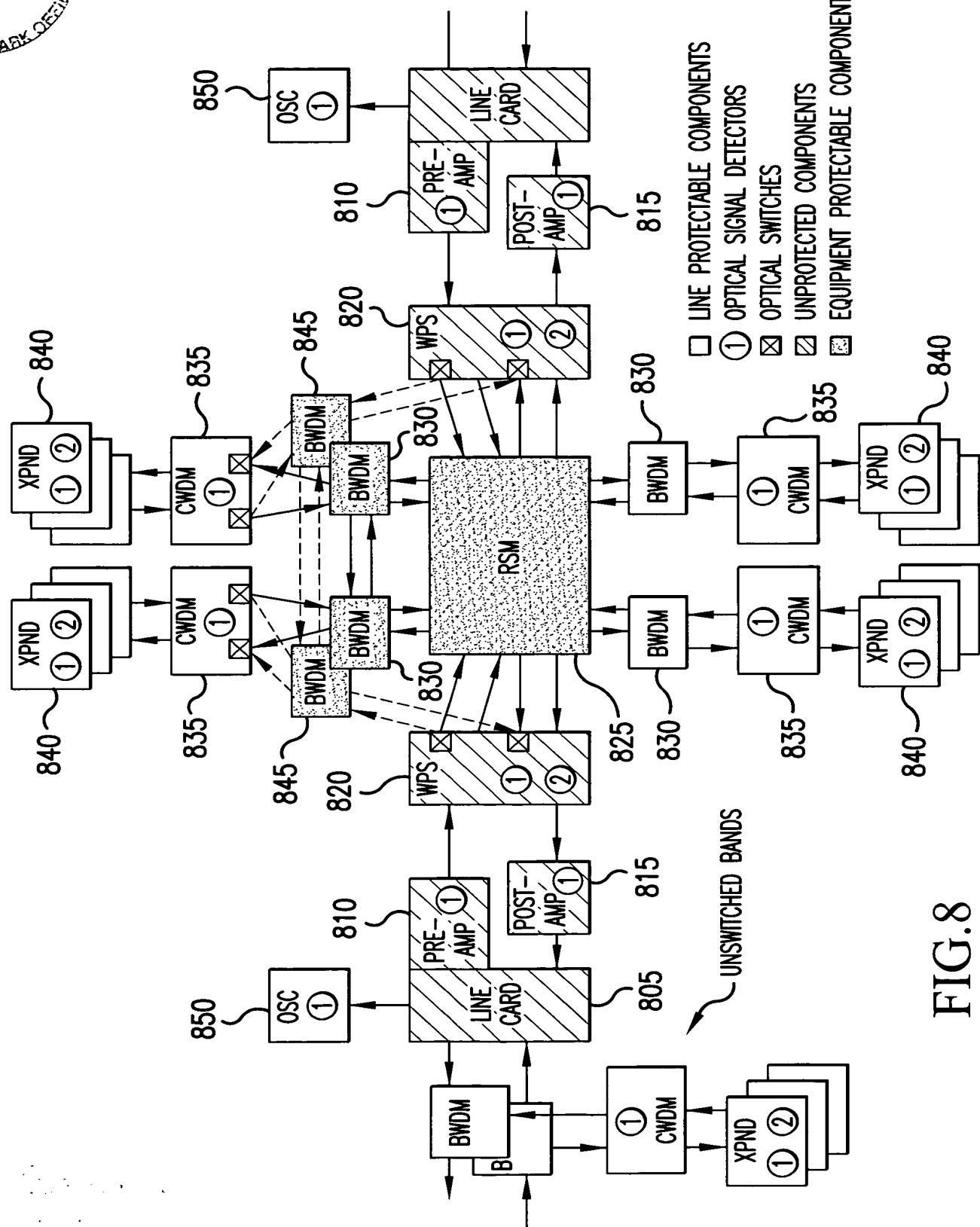


FIG. 8



## REPLACEMENT SHEET

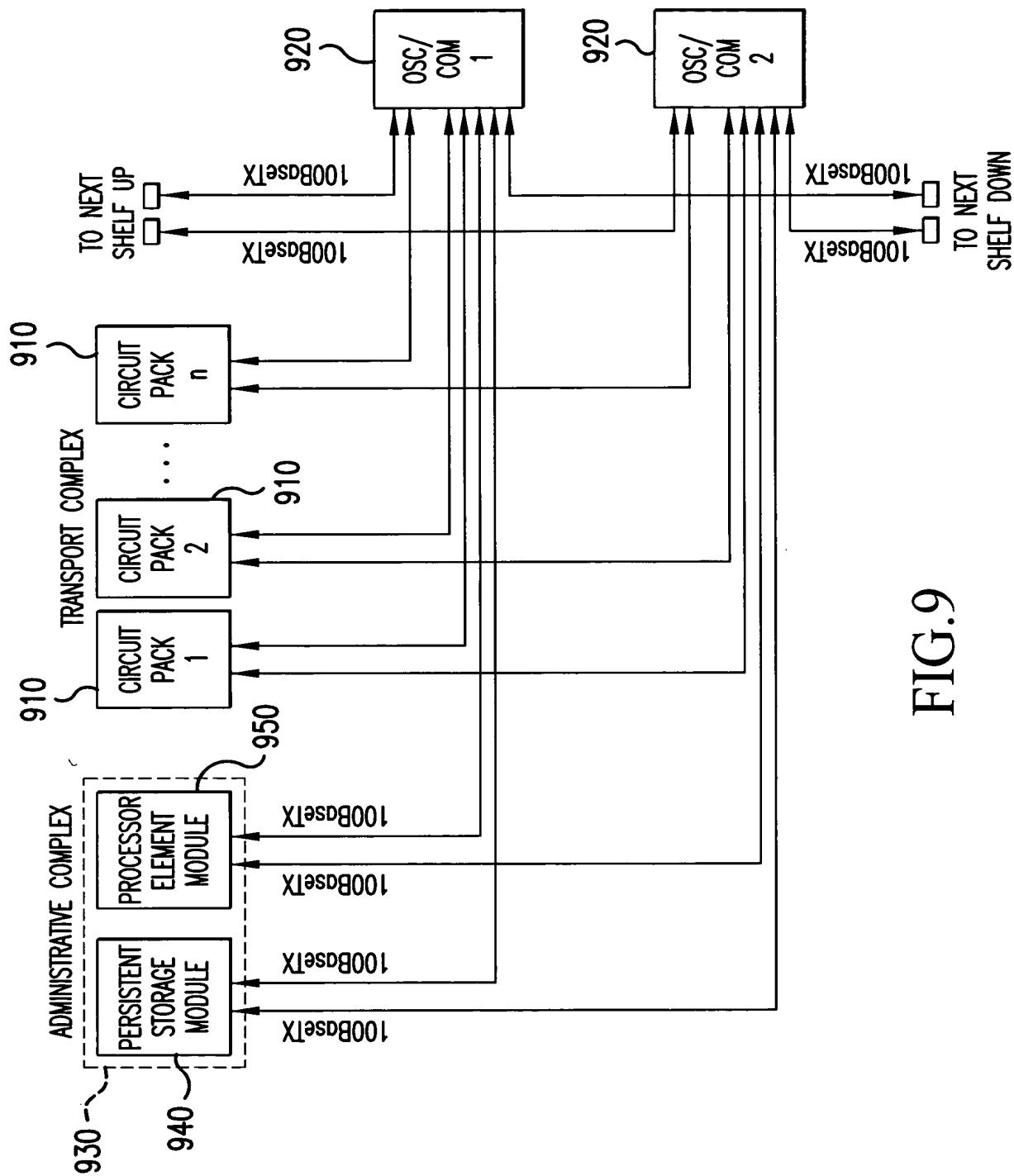
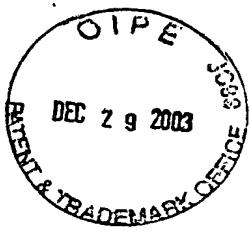


FIG. 9



## REPLACEMENT SHEET

FIG.10A-1

FIG.10A-2

FIG.10A-3

FIG.10A-4

# FIG.10A



## REPLACEMENT SHEET

COMPONENT LINE/ POSTAMP	CONNECTING FIBER LOCAL NODE EFFECT DOWNSTREAM NODE EFFECT	DESIRED PROTECTION ACTION	PASSTHRU	BSAME	BOPPOSITE	RSW	GLASSTHRU
			OPEN NODE	PASSTHRU	PASSTHRU	PASSTHRU	PASSTHRU
FROM WPS TO WPS	WORKING, AND PCA DROPS SEE LOS	IF LOCAL NODE ADDS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. OTHERWISE, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU CHANNELS DETECT LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	RS	RS	RS	RS	RS
FROM UNMATCHED BWDW TO UNMATCHED BWDW	NO IMPACT	DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU OR ADD CHANNELS REPORT LOS DOWNSTREAM.	RS	RS	RS	RS	RS
FROM UNMATCHED BWDW TO NEIGHBOR	LOCAL WORKING, UCA, AND PCA DROPS SEE LOS NO IMPACT	IF LOCAL NODE ADDS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. OTHERWISE, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU CHANNELS DETECT LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM. DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU OR ADD CHANNELS REPORT LOS DOWNSTREAM.	RS	RS	RS	RS	RS
TO/FROM OSC	DO NOT PROTECT AGAINST OSC FAILURE-USE AS RING SWITCH TRIGGER IF APPLICABLE NO IMPACT	DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU OR ADD CHANNELS REPORT LOS DOWNSTREAM.	RS	RS	RS	RS	RS

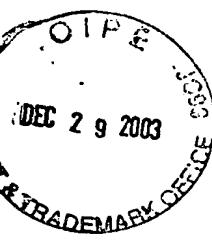
FIG. 10A-1



REPLACEMENT SHEET

NODE CONFIGURATIONS - WCA WITHOUT UCA				NODE CONFIGURATIONS - WCA WITH UCA			
OPEN NODE	PASSTHRU NODE	BSAME PASSTHRU	BOPPOSITE PASSTHRU	OPEN NODE	PASSTHRU NODE	BSAME PASSTHRU	BOPPOSITE PASSTHRU
OSC OK WPS IN LOS RESULT: LOS	N/A	N/A	N/A	N/A			
OSC OK WPS IN LOS RESULT: LOS	N/A	N/A	N/A	N/A			
N/A	N/A	N/A	N/A	OSC OK WPS IN LOS RESULT: LOS			
DOWNSTREAM OCS LOS LINE IN LOS ACTION: RS							

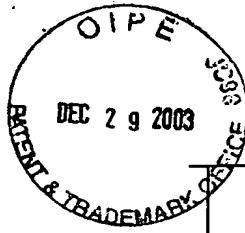
FIG. 10A-2



REPLACEMENT SHEET

FROM NEIGHBOR	LOCAL WORKING, UCA, AND PCA DROPS SEE LOS	IF LOCAL NODE ADDS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. OTHERWISE, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU CHANNELS DETECT LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	RS	RS	RS	RS	RS
			RS	RS	RS	RS	RS
PREAMP BAND	WORKING AND PCA DROPS SEE LOS	IF LOCAL NODE ADDS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. OTHERWISE, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU CHANNELS DETECT LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	RS	RS	RS	RS	RS
			RS	RS	RS	RS	RS
FROM LINE CARD	WORKING AND PCA DROPS SEE LOS	IF LOCAL NODE ADDS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. OTHERWISE, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT. LOCAL PASSTHRU CHANNELS DETECT LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	RS	RS	RS	RS	RS
			RS	RS	RS	RS	RS
WPS	NO IMPACT	LOCAL PASSTHRU AND ADD WORKING CHANNELS REPORT LOS DOWNSTREAM. PCA CHANNELS OK DOWNSTREAM. IF LOCAL NODE HAS PROTECT ACCESS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. IF NO PROTECT ACCESS TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS NO LIGHT.	EQ	EQ	EQ	EQ	EQ
			N/A	N/A	N/A	N/A	N/A
PROTECT FROM RSM (NO ACTION TAKEN SINCE PROTECT EQUIPMENT)	NO IMPACT	LOCAL PASSTHRU AND ADD PCA CHANNELS REPORT LOS DOWNSTREAM.	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
WORKING FROM BACKUP BNDW	NO IMPACT	LOCAL PASSTHRU AND ADD WORKING CHANNELS REPORT LOS DOWNSTREAM. PCA CHANNELS OK DOWNSTREAM. IF LOCAL NODE HAS PROTECT ACCESS	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A

FIG. 10A-3

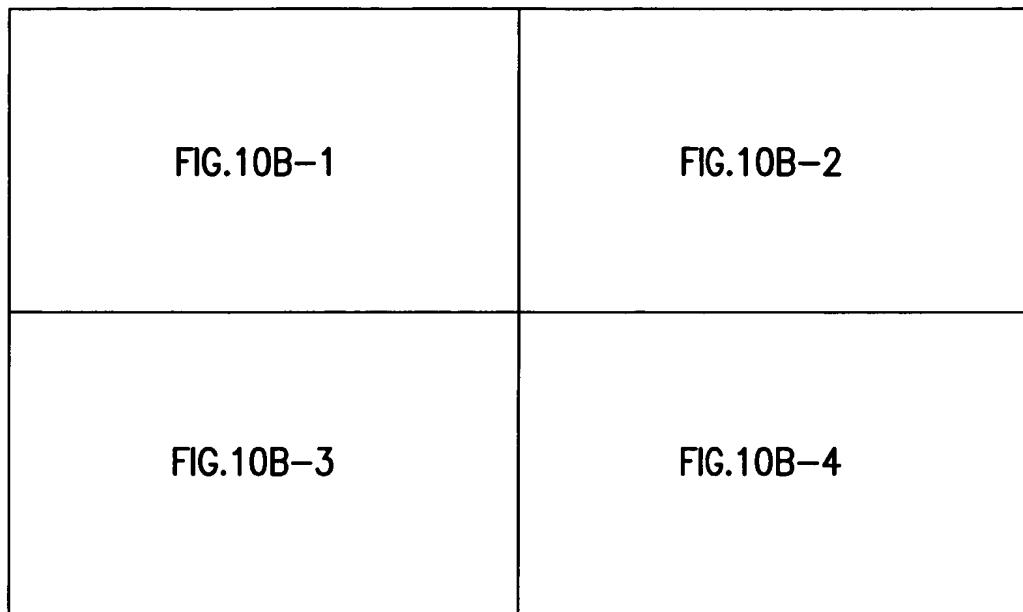


## REPLACEMENT SHEET

FIG. 10A-4



## REPLACEMENT SHEET



**FIG.10B**



## REPLACEMENT SHEET

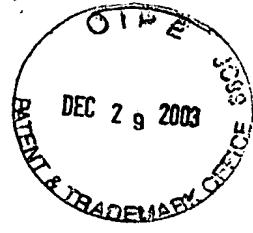
WORKING TO RSM	LOCAL WORKING CHANNEL DROPS SEE LOS	IF LOCAL NODE ADDS WORKING CHANNELS OR CARRIES PCA TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. LOCAL PASSTHRU WORKING CHANNELS SEE LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	EQ	EQ	EQ	EQ	EQ
	PROTECT TO RSM (NO ACTION TAKEN SINCE PROTECT EQUIPMENT)	PROTECT ACCESS DROPS SEE LOS.	N/A	N/A	N/A	N/A	N/A
RSM	WORKING FROM PRIMARY BWDW	LOCAL DROPS AND PASSTHRU PCA CHANNELS REPORT LOS	EQ	EQ	EQ	EQ	EQ
	PROTECT FROM BWDW (NO ACTION TAKEN SINCE PROTECT EQUIPMENT)	LOCAL PASSTHRU AND ADD WORKING CHANNELS REPORT LOS DOWNSTREAM. PCA CHANNELS OK. IF LOCAL NODE HAS PCA DOWNSTREAM NEIGHBOR SEES LIGHT.	N/A	N/A	N/A	N/A	N/A
WORKING TO PRIMARY BWDW	LOCAL WORKING CHANNEL DROPS SEE LOS	LOCAL ADD AND PASSTHRU PCA CHANNELS REPORT LOS	EQ	EQ	EQ	EQ	EQ
	PROTECT FROM RSM (NO ACTION TAKEN SINCE PROTECT EQUIPMENT)	IF LOCAL NODE ADDS WORKING CHANNELS OR CARRIES PCA TRAFFIC, DOWNSTREAM NEIGHBOR WPS RECEIVE PIN DETECTS LIGHT. LOCAL PASSTHRU WORKING CHANNELS SEE LOS DOWNSTREAM. LOCAL ADD CHANNELS ARE OK DOWNSTREAM.	EQ	EQ	EQ	EQ	EQ

FIG.10B-1



## REPLACEMENT SHEET

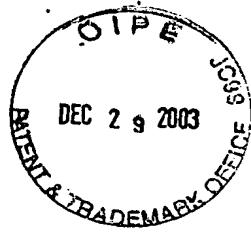
FIG. 10B-2



REPLACEMENT SHEET

PROTECT TO BWDW (NO ACTION TAKEN SINCE PROTECT EQUIPMENT)	LOCAL CHANNEL DROPS SEE LOS	LOCAL DROP AND PASSTHRU PCA CHANNELS REPORT LOS	N/A	N/A	N/A	N/A	N/A
FROM CWDW	NO IMPACT	NO IMPACT	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)
TO BWDW (FROM RSM TOWARD PASSTHRU)	NO IMPACT	CWDW ADD CHANNELS SEE DOWNSTREAM LOS. OTHER ADD CHANNELS AND PASSTHRU ARE OK.	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)	EQ (LOS IF UCA)
FROM BWDW (FROM RSM TOWARD PASSTHRU)	NO IMPACT	LOCAL CHANNEL DROPS DOWNSTREAM OF FAILURE SEE LOS	PASSTHRU WORKING CHANNELS SEE LOS DOWNSTREAM.	EQ	EQ	EQ	N/A
TO/FROM BWDW (PASSTHRU)	NO IMPACT	NO IMPACT	PASSTHRU CHANNELS SEE LOS DOWNSTREAM. ADDED CHANNELS UPSTREAM OF THE FAILURE SEE LOS DOWNSTREAM. CHANNELS ADDED FOLLOWING FAILURE ARE OK.	EQ	EQ	EQ	N/A
WC	TO CWDW	NO IMPACT	PASSTHRU CHANNELS SEE LOS DOWNSTREAM. ADDED CHANNELS ARE OK DOWNSTREAM.	N/A	EQ	N/A	N/A
	FROM CWDW	LOCAL LOS		LOS	LOS	LOS	LOS

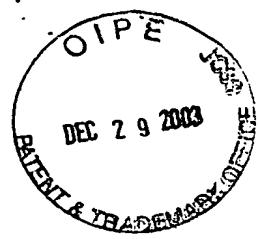
FIG.10B-3



REPLACEMENT SHEET

N/A							
OSC OK LINE IN OK RESULT: LOS							
OSC OK LINE IN OK RESULT: LOS							
OSC OK LINE IN OK RESULT: LOS							
OSC OK LINE IN OK RESULT: LOS							
N/A							
LOS							
LOS							

FIG.10B-4



## REPLACEMENT SHEET

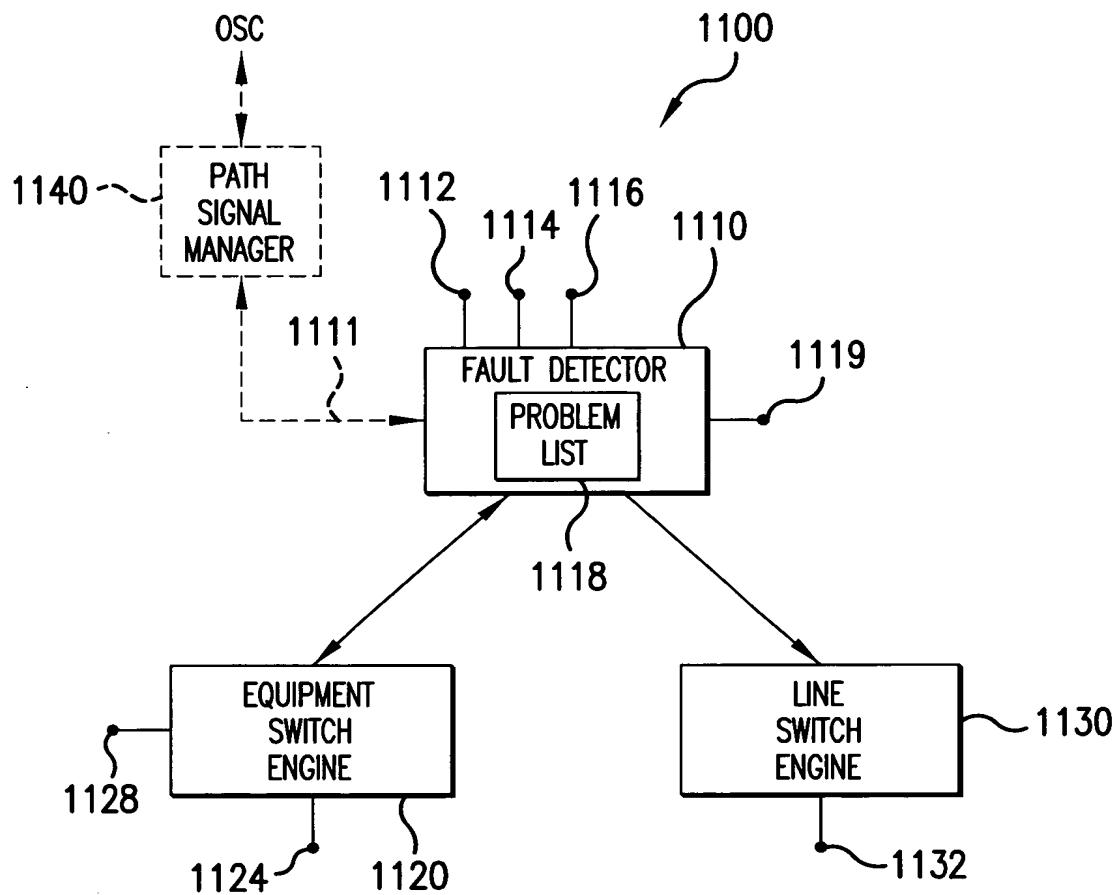


FIG.11



## REPLACEMENT SHEET

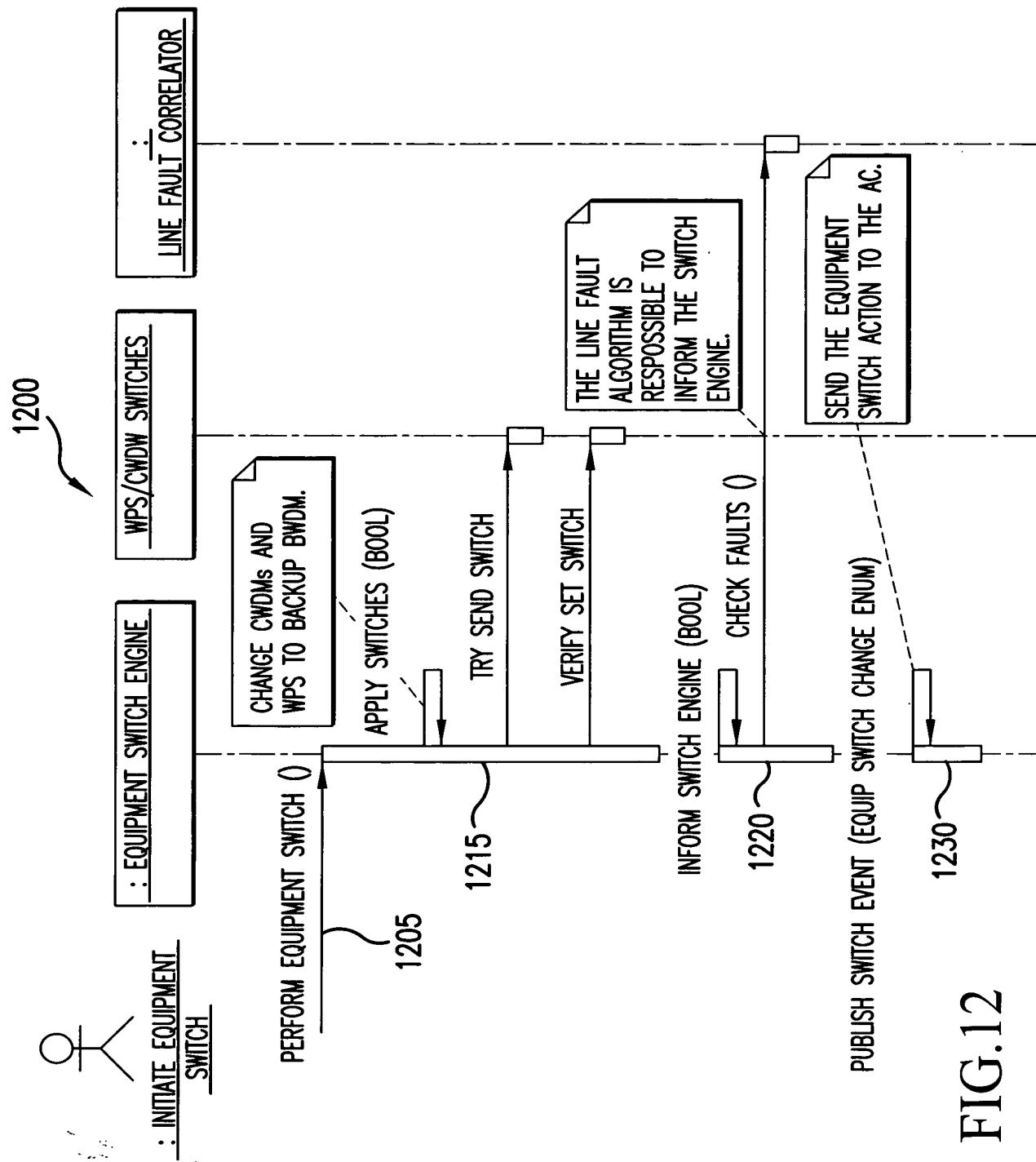


FIG. 12



## REPLACEMENT SHEET

1300

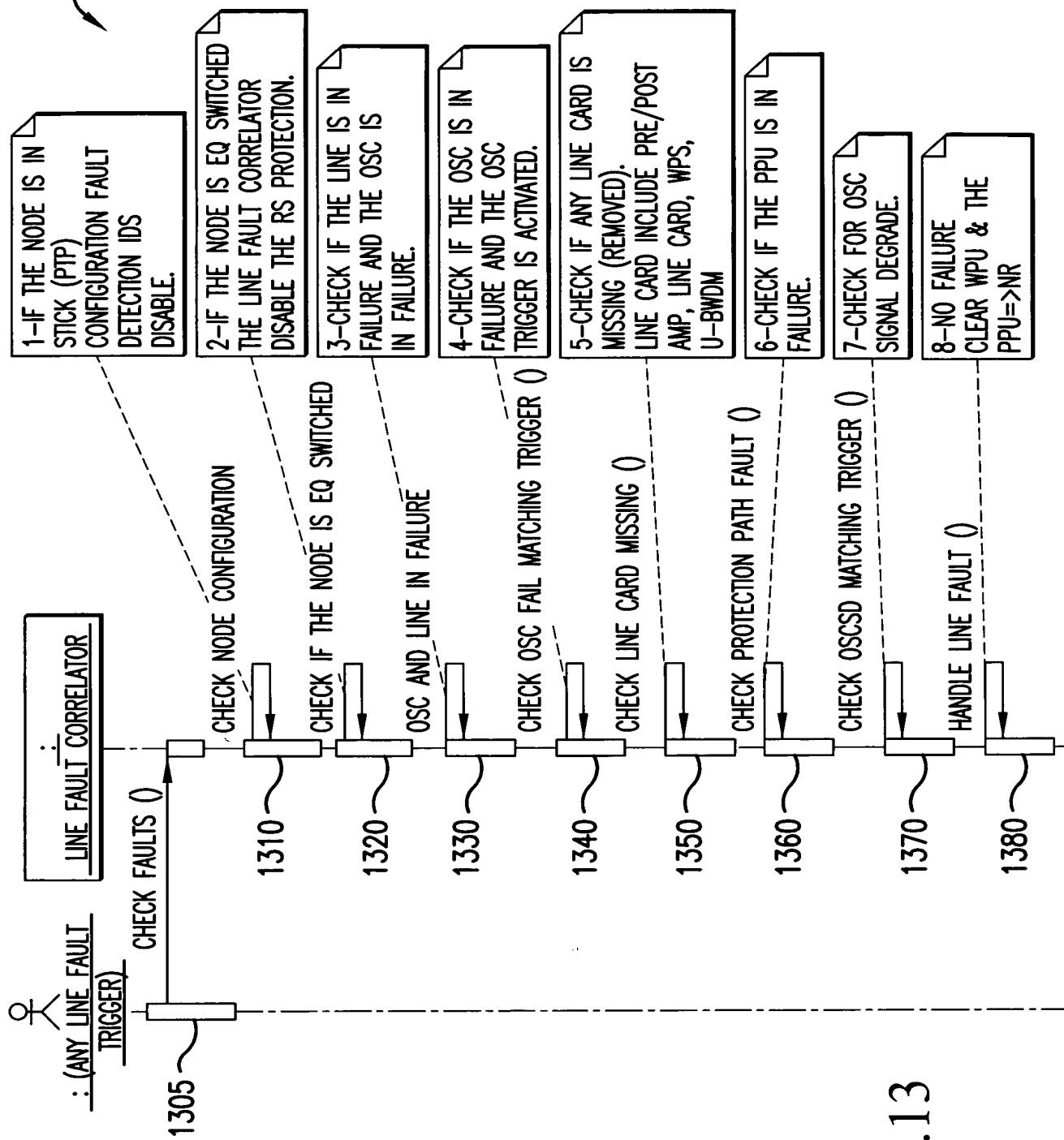
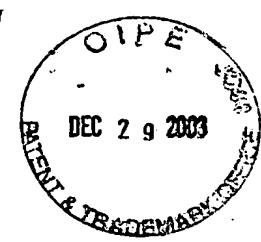


FIG. 13



REPLACEMENT SHEET

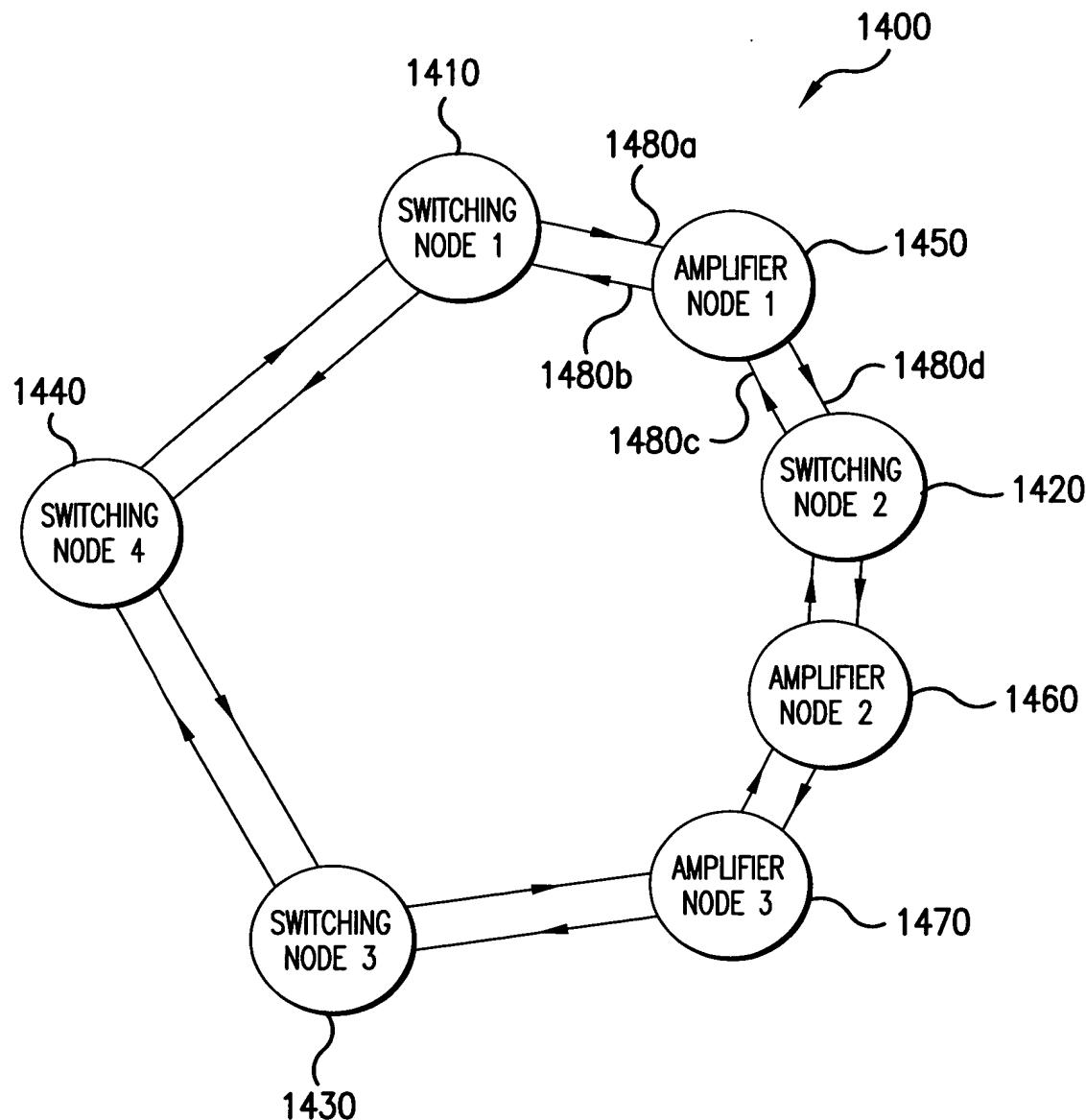


FIG.14